

 <p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	ATTY. DOCKET NO. TAN-2-1495.01.US	SERIAL NO. 09/778,474
	APPLICANT Nelson et al.	
	FILING DATE February 7, 2001	GROUP 2467

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	*	3,560,978	02/1971	Himmel et al.			
	*	3,725,938	04/1973	Black et al.			
		3,742,498	06/1973	Dunn			
	*	3,846,799	11/1974	Guegen			
	*	3,950,753	04/1976	Chisholm			
	*	4,021,813	05/1977	Black et al.			
	*	4,099,184	07/1978	Rapshys			
		4,107,469	08/1978	Jenkins			
	*	4,170,766	10/1979	Pridham et al.			
	*	4,260,994	04/1981	Parker			
	*	4,290,071	09/1981	Fenwick			
	*	4,387,378	06/1983	Henderson			
	*	4,448,155	12/1984	Wu			
		4,577,316	03/1986	Schiff			
		4,599,733	07/1986	Gutleber			
		4,625,308	11/1986	Kim et al.			
	*	4,631,546	12/1986	Dumas et al.			
		4,642,806	02/1987	Hewitt et al.			
		4,675,863	06/1987	Paneth et al.			
	*	4,700,197	10/1987	Milne			
		4,817,089	03/1989	Paneth et al.			
		4,841,526	06/1989	Wilson et al.			
		4,862,453	08/1989	West et al.			
		4,866,709	09/1989	West et al.			
		4,912,705	03/1990	Paneth et al.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,949,395	08/1990	Rydbeck			
	*	4,954,950	9/4/1990	Freeman et al.			
		5,022,024	06/1991	Paneth et al.			
	*	5,027,125	06/1991	Tang			
		5,027,348	06/1991	Curry, Jr.			
		5,027,400	06/1991	Baji et al.			
	*	5,038,149	08/1991	Aubry et al.			
		5,056,109	10/1991	Gilhousen et al.			
		5,068,916	11/1991	Harrison et al.			
		5,101,416	03/1992	Fenton et al.			
		5,103,459	04/1992	Gilhousen et al.			
		5,114,375	05/1992	Wellhausen et al.			
		5,115,309	05/1992	Hang			
	*	5,117,236	05/1992	Chang et al.			
	*	5,124,981	06/1992	Golding			
		5,130,983	07/1992	Heffner III			
		5,226,044	07/1993	Gupta et al.			
	*	5,235,343	08/1993	Audren et al.			
		5,257,283	10/1993	Gilhousen et al.			
		5,267,262	11/1993	Wheatly III			
		5,268,900	12/1993	Hluchyj et al.			
	*	5,280,472	01/1994	Gilhousen et al.			
		5,282,222	01/1994	Fattouche et al.			
	*	5,293,172	03/1994	Lamberty et al.			
	*	5,294,939	03/1994	Sanford et al.			
	*	5,303,240	04/1994	Borras et al.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,325,394	06/1994	Bruckert			
		5,325,419	06/1994	Connolly et al.			
	*	5,337,316	08/1994	Weiss et al.			
		5,339,316	08/1994	Diepstraten			
		5,353,332	10/1994	Raith et al.			
		5,355,374	11/1994	Hester et al.			
		5,373,502	12/1994	Turban			
		5,375,124	12/1994	D'Ambrogio, et al.			
		5,388,102	02/1995	Griffith et al.			
		5,394,473	02/1995	Davidson			
		5,412,429	05/1995	Glover			
		5,414,728	05/1995	Zehavi			
		5,422,887	06/1995	Diepstraten et al.			
	*	5,430,452	07/1995	DuBois			
	*	5,437,055	07/1995	Wheatley, III			
		5,442,625	08/1995	Gitlin et al.			
		5,446,727	08/1995	Bruckert et al.			
		5,463,629	10/1995	Ko			
		5,471,463	11/1995	Hulbert			
	*	5,479,176	12/1995	Zavrel, Jr.			
		5,481,533	01/1996	Honig et al.			
	*	5,487,180	01/23/1996	Ohtake			
		5,490,136	02/1996	Sereno et al.			
	*	5,493,569	02/1996	Buchholz et al.			
	*	5,502,447	03/1996	Kumpfbeck et al.			
		5,511,068	04/1996	Sato			

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		5,537,397	07/1996	Abramson			
	*	5,537,414	07/16/1996	Takiyasu et al.			
	*	5,550,828	08/27/1996	Gries et al.			
		5,559,789	09/1996	Nakano et al.			
	*	5,577,022	11/19/1996	Padovani et al.			
		5,581,575	12/1996	Zehavi et al.			
		5,585,850	12/1996	Schwaller			
		5,586,119	12/1996	Scribano et al.			
		5,590,409	12/1996	Sawahashi et al.			
	*	5,592,178	01/1997	Chang et al.			
	*	5,592,468	01/1997	Sato			
		5,592,470	01/1997	Rudrapatna et al.			
		5,592,471	01/1997	Briskman			
		5,598,416	01/1997	Yamada et al.			
	*	5,598,417	01/1997	Crisler et al.			
		5,604,730	12/1997	Tiedemann Jr.			
		5,606,580	02/1997	Mourot et al. ¹			
	*	5,617,102	04/1997	Prater			
		5,617,423	04/1997	Li et al.			
		5,619,492	04/1997	Press et al.			
		5,619,524	04/1997	Ling et al.			
	*	5,621,752	04/1997	Antonio et al.			
	*	5,634,199	05/1997	Gerlach et al.			
		5,642,348	06/1997	Barzegar et al.			
		5,642,377	06/1997	Chung et al.			
		5,652,764	07/1997	Kanzaki et al.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,655,001	08/1997	Cline et al.			
		5,657,326	06/1997	Burns et al.			
		5,657,358	08/1997	Panech et al.			
		5,663,958	09/1997	Ward			
		5,663,990	09/1997	Bolgiano et al.			
		5,673,259	09/1997	Quick, Jr.			
	*	5,680,142	10/1997	Smith et al.			
		5,684,794	11/1997	Lopez et al.			
		5,687,194	11/1997	Paneth et al.			
		5,689,502	11/1997	Scott			
		5,697,059	12/1997	Carney			
		5,699,364	12/1997	Sato et al.			
		5,708,656	01/1998	Noneman et al.			
		5,712,869	01/1998	Lee et al.			
	*	5,715,236	02/1998	Gilhousen et al.			
		5,726,981	03/1998	Ylittero et al.			
		5,734,646	03/1998	I et al.			
	*	5,739,784	04/1998	Jan et al.			
		5,742,592	04/1998	Scholefield et al.			
	†	5,745,484	04/1998	Scott			
		5,745,484	04/1998	Scott			
		5,758,288	05/1998	Dunn et al.			
	*	5,767,807	06/1998	Pritchett			
		5,781,542	07/1998	Tanaka et al.			
		5,781,543	07/1998	Ault et al.			
		5,784,406	07/1998	DeJaco et al.			

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		5,790,549	08/1998	Dent			
		5,790,551	08/1998	Chan			
		5,793,744	08/1998	Kanerva et al.			
		5,802,046	09/1998	Scott			
		5,802,465	09/1998	Hamalainen et al.			
		5,805,994	09/1998	Perrault et al.			
		5,812,131	09/1998	Bertram			
		5,825,807	10/1998	Kumar			
		5,828,659	10/1998	Teder et al.			
		5,828,662	10/1998	Jalali et al.			
	*	5,838,720	11/17/1998	Morelli			
		5,841,768	11/1998	Ozluturk et al.			
		5,844,894	12/1998	Dent			
		5,845,211	12/1998	Roach			
		5,854,786	12/1998	Henderson et al.			
		5,856,971	01/1999	Gitlin et al.			
		5,859,840	01/1999	Tiedemann, Jr. et al.			
		5,859,879	01/1999	Bolgiano et al.			
		5,867,527	02/1999	Ziv et al.			
		5,872,786	02/1999	Shobatake			
	*	5,873,043	02/16/1999	Comer			
		5,881,060	03/1999	Morrow et al.			
		5,881,368	03/1999	Grob et al.			
		5,884,196	03/1999	Lekven et al.			
		5,892,774	04/1999	Zehavi et al.			
		5,893,035	04/1999	Chen			

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		5,894,473	04/1999	Dent			
		5,896,376	04/1999	Alperovich et al.			
		5,898,929	04/1999	Haartsen			
	*	5,905,473	05/1999	Taenzer			
		5,910,944	06/1999	Callicotte et al.			
		5,910,945	06/1999	Garrison et al.			
		5,914,950	06/1999	Tiedemann, Jr. et al.			
	*	5,915,216	06/22/1999	Lysejko			
		5,923,650	07/1999	Chen et al.			
		5,926,500	07/1999	Odenwalder			
		5,930,230	07/1999	Odenwalder et al.			
		5,933,781	08/1999	Willenegger et al.			
	*	5,943,362	08/1999	Saito			
		5,950,131	09/1999	Vilmur			
		5,956,332	09/1999	Rasanen et al.			
		5,959,980	09/1999	Scott			
		5,960,361	09/1999	Chen			
	*	5,963,559	08/7/2003	Ohki			
		5,966,374	10/1999	Rasanen			
	*	5,974,036	10/26/1999	Acharya et al.			
		5,982,760	11/1999	Chen			
		5,991,279	11/1999	Haugli et al.			
		5,991,284	11/1999	Willenegger et al.			
	*	5,991,618	11/23/1999	Hall			
		6,001,800	12/1999	Mehta et al.			
		6,002,690	12/1999	Takayama et al.			

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		6,005,852	12/1999	Kokko et al.			
		6,005,855	12/1999	Zehavi et al.			
		6,009,106	12/1999	Rustad et al.			
		6,011,800	01/2000	Nadgauda et al.			
		6,016,312	01/2000	Storn et al.			
		6,028,868	02/2000	Yeung et al.			
		6,031,827	02/2000	Rikkinen et al.			
	*	6,034,638	03/2000	Thiel et al.			
	*	6,037,905	03/2000	Koscica et al.			
	*	6,038,450	03/14/2000	Brink et al.			
		6,049,535	04/2000	Ozluturk			
		6,049,538	04/2000	Scott			
		6,052,385	04/2000	Kanerva et al.			
		6,058,338	05/2000	Agashe et al.			
		6,064,678	05/2000	Sindhushayana et al.			
		6,069,880	05/1999	Owen et al.			
		6,069,883	05/2000	Ejzak et al.			
	*	6,070,071	05/2000	Chavez et al.			
		6,075,974	06/2000	Saints et al.			
		6,078,572	06/2000	Tanno et al.			
		6,081,536	06/2000	Gorsuch et al.			
		6,088,335	07/2000	I et al.			
		6,094,421	07/2000	Scott			
		6,094,576	07/2000	Häkkinen et al.			
		6,097,733	08/2000	Basu et al.			
		6,097,972	08/2000	Saints et al.			

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	*	6,100,843	08/2000	Proctor, Jr. et al.			
		6,101,176	08/2000	Honkasalo et al.			
		6,101,179	08/2000	Soliman			
		6,104,708	08/2000	Bergamo			
		6,111,863	08/2000	Rostoker et al.			
		6,112,092	08/2000	Benveniste			
	*	6,115,370	09/2000	Struhsaker et al.			
		6,118,767	09/2000	Shen et al.			
		6,134,233	10/2000	Kay			
		6,151,332	11/2000	Gorsuch et al.			
		6,157,616	12/2000	Whitehead			
		6,157,619	12/2000	Ozluturk et al.			
		6,161,013	12/2000	Anderson et al.			
		6,163,707	12/2000	Miller			
		6,169,731	01/2001	Stewart et al.			
	*	6,185,184	02/2001	Mattaway et al.			
	*	6,185,266	02/2001	Kuchi et al.			
		6,188,678	02/2001	Prescott			
		6,188,903	02/2001	Gardner et al.			
	†	6,196,362	02/2001	Darcie et al.			
		6,198,723	03/2001	Parruck et al.			
		6,201,966	03/2001	Rinne et al.			
		6,208,871	03/2001	Hall et al.			
		6,212,175	04/2001	Harsch			
		6,212,220	04/2001	Proctor Jr., et al.			
		6,215,798	04/2001	Carneheim et al.			

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		6,219,342	04/2001	Rege			
		6,219,342	04/2001	Rege			
		6,222,828	04/2001	Ohlson et al.			
		6,222,832	04/2001	Proctor, Jr.			
		6,222,873	04/2001	Bang et al.			
		6,226,527	05/2001	Dalsgaard et al.			
		6,233,439	05/2001	Jalali			
		6,236,647	05/2001	Amalfitano			
	*	6,236,674	05/22/2001	Morelli et al.			
		6,243,372	06/2001	Petch et al.			
		6,246,673	06/2001	Tiedmann et al.			
		6,246,715	06/2001	Park et al.			
	*	6,256,509	07/2001	Tanaka et al.			
		6,259,683	07/2001	Sekine et al.			
		6,262,980	07/2001	Leung et al.			
		6,263,013	07/2001	Hendrickson			
		6,269,075	07/2001	Tran			
		6,269,088	07/2001	Masui et al.			
		6,272,168	08/2001	Lomp et al.			
		6,272,354	08/2001	Saaro			
		6,275,478	08/2001	Tiedemann Jr.			
	*	6,278,701	08/2001	Ayyagari et al.			
		6,285,665	09/2001	Chuah			
	*	6,292,474	09/2001	Ali et al.			
		6,301,291	10/2001	Rouphael et al.			
	*	6,304,215	10/2001	Proctor, Jr. et al.			

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		6,307,840	10/2001	Wheatley III et al.			
		6,310,859	10/2001	Morita et al.			
	*	6,314,300	11/2001	Nakashima et al.			
	*	6,317,092	11/2001	De Schweinitz et al.			
		6,320,851	11/2001	Kim et al.			
		6,332,008	12/2001	Giallorenzi et al.			
	*	6,337,668	01/2002	Ito et al.			
		6,353,412	03/2002	Soliman			
		6,353,645	03/2002	Solve et al.			
		6,356,555	03/2002	Rakib et al.			
		6,366,570	04/2002	Bhagalia			
		6,366,786	04/2002	Norman et al.			
		6,370,117	04/2002	Koraitim et al.			
		6,373,830	04/2002	Ozluturk			
		6,373,834	04/2002	Lundh et al.			
		6,377,548	04/2002	Chuah			
		6,377,809	04/2002	Rezaiifar et al.			
		6,388,997	05/2002	Scott			
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	FILING DATE February 7, 2001	GROUP 2467

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		6,545,994	04/2003	Nelson et al.			
	*	6,546,252	04/2003	Jetzek et al.			

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	*	2001/0039191	11/2001	Maierhofer			
	*	2002/0009061	01/2002	Willenegger			
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	*	2002/0097700	07/25/2002	Alastalo			
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		2003/0060224	03/2003	Nelson et al.			
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							YES	NO
	*	2812575	09/1979	DE				
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							YES	NO
		0 719 062	06/1996	EP				
	†	0 720 309	07/1996	EP				
		0 773 636	05/1997	EP				
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	*	0 475 698	03/1997	EP				
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	*	09-055693	02/1997	JP			X**	
	*	566045	12/2003	TW			X**	
	*	200536325	11/2005	TW			X**	
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							YES	NO
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<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. TAN-2-1495.01.US</p>	<p>SERIAL NO. 09/778,474</p>
	<p>APPLICANT Nelson et al.</p>	
	<p>FILING DATE February 7, 2001</p>	<p>GROUP 2467</p>

EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	*	PRESTON, S.L., ET AL., 'A Multibeam Antenna Using Switched Parasitic and Switched Active Elements for Space-Division Multiple Access Applications,' <i>IEICE Trans. Electron.</i> , Vol. E82-C, No. 7, pp.1202-1210, (July 1999)
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X** English abstract provided.

¹ Corresponds to EP 0635949; ² Corresponds to FR 2761557; ³ Corresponds to JP 2000-92019.

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